

# DEBUGGING JUPYTERLAB EXTENSIONS



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How to debug (using vscode)

## When to debug

- When stuff goes wrong
- When you want to inspect the internals of your extension



How to debug (using vscode)

How to know stuff has gone wrong

- UI elements don't show up
- Errors appear in Python console
- Errors appear in browser console



How to debug (using vscode)

## Enter into a terminal

- \$ pip install cookiecutter
- \$ cookiecutter gh:jupyterlab/debug-configcookiecutter -f
- Answer any prompts that come up
- Configure stuff in .vscode dir as necessary
  - For the "mybutton" example project, change "webroot" to:

"webRoot": "\${workspaceFolder}/demo/completed-demo",



## Set breakpoints in vscode

When to debug

How to debug (using vscode)

```
demo > completed-demo > mybutton > handlers.py > TutorialHandler
from jupyter_server.base.handlers import JupyterHandler
import tornado
class TutorialHandler(JupyterHandler):
    @tornado.web.authenticated
    def get(self):
    self.write('HELLO WORLD')
```

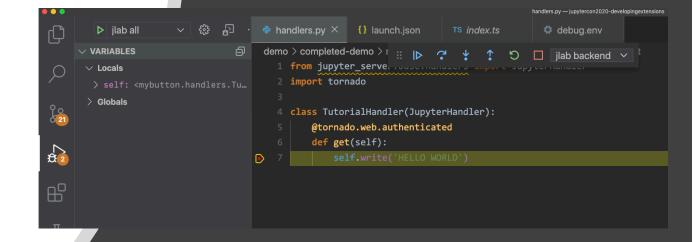


## Run debug tasks in "run" sidebar

• Run "jlab all"

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# Project config (for your own extensions)

- Add "sourceMap" to tsconfig.json
  - "sourceMap": true,
- Make sure that "files" in package.json includes src
  - Example:

